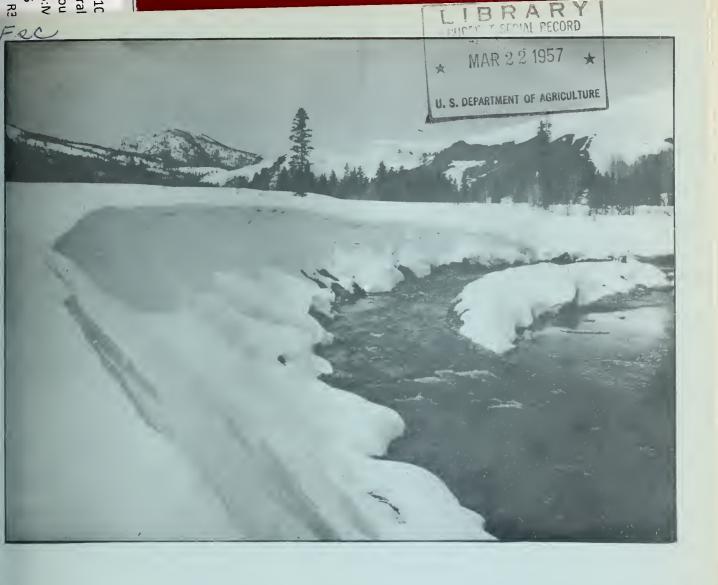
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Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

Colorado River Drainage Basin

SOIL CONSERVATION SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AND

COLORADO AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, National Park Service, State Engineers of Colorado, Wyoming and New Mexico and other Federal, State and local organizations.

AS OF

FEBRUARY 1, 1955

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Burcau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge River Forecast Center U. S. Weather Bureau 712 Federal Office Building Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office listed below:

Meteorologist in Charge......San Juan River and tributaries Weather Bureau Airport Station Albuquerque, N. Mex.

Meteorologist in Charge...........Colorado River and tributaries Weather Bureau Airport Station from but not including the 3000 Sky Harbor Blvd. mouth of the San Juan River Phoenix, Ariz.

to the Arizona-Mexico border.

Weather Bureau Airport Station above but not including, the Box 517 Grand Junction, Colo.

Meteorologist in Charge......Colorado River and tributaries mouth of the San Juan

Colorado River

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

for

COLORADO RIVER BASIN

Issued

February 10, 1955

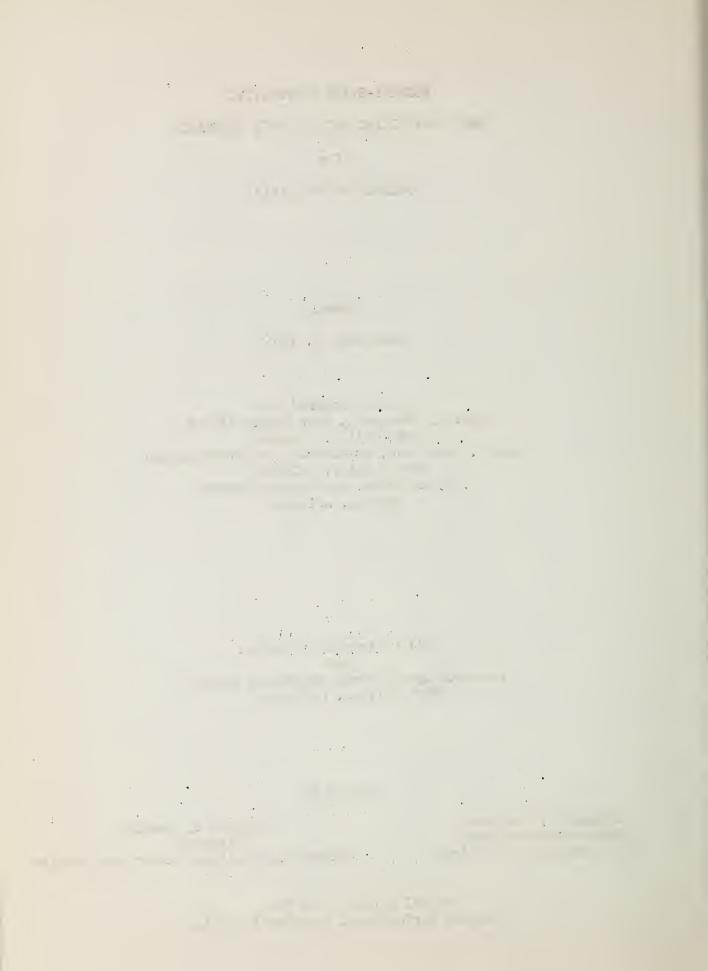
Report Prepared By
Homer J. Stockwell, Snow Survey Leader
Fort Collins, Colorado
Jack N. Washichek, Assistant Snow Survey Leader
Fort Collins, Colorado
W. E. Anderson, Snow Survey Leader
Phoenix, Arizona

Soil Conservation Service and Colorado Agricultural Experiment Station Fort Collins, Colorado

Issued By

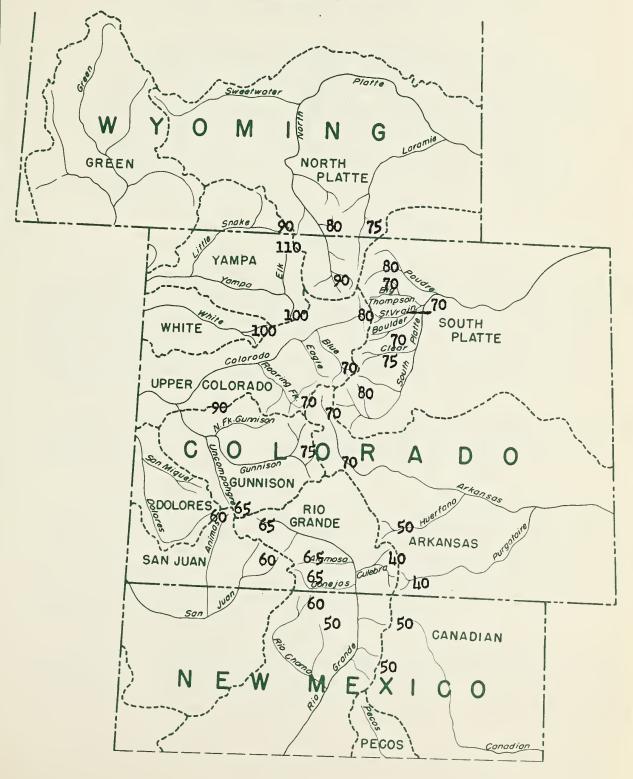
Kenneth W. Chalmers State Conservationist Soil Conservation Service Sherman S. Wheeler Director Colorado Agricultural Experiment Station

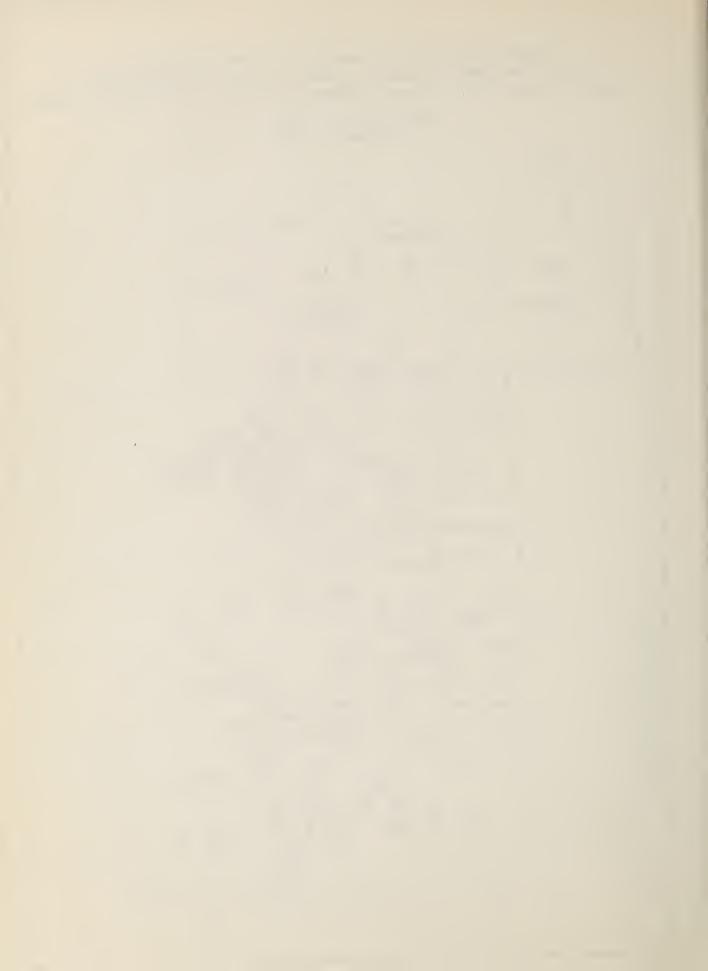
General Series Paper 594 Colorado Agricultural Experiment Station



WATER CONTENT OF SNOW ON THE WATERSHEDS OF PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal February 1, 1955





WATER SUPPLY OUTLOOK COLORADO RIVER DRAINAGE FEBRUARY 1, 1955

Irrigated areas in western Colorado may expect reasonably adequate water supplies along the principal streams.

Early season snow surveys indicate that the 1955 streamflow in western Colorado and New Mexico will be higher than in 1954 but less than the long term average on most Colorado River tributaries. Snow cover on the Yampa and White watersheds is near average for February 1 ranging down 60 percent on the San Juan and Dolores watersheds. Soil moisture at mountain elevations is relatively high. Reservoir storage is down to some extent from average and February 1, 1954.

COLORADO RIVER AND TRIBUTARIES IN COLORADO

In contrast to eastern Colorado, at least part of western Colorado has possibilities of reasonable water supplies this next year. Due to rainfall or snowmelt during the late fall months soil moisture conditions in the mountains as well as at valley elevations are fair to good. These areas include the Yampa, White and Roaring Fork rivers and Plateau Creek watersheds. Relatively heavy fall rains also occurred on the Upper San Juan. Elsewhere, including the Upper Colorado and Gunnison rivers soil moisture conditions are not so favorable.

Snow cover ranges from 110 percent of normal on the Yampa River to 60 percent of normal on the San Juan, Animas and Dolores rivers. Streamflow is generally about average for the winter months in the Colorado, Yampa and White rivers and less than average on other drainages.

Streamflow during the snowmelt season is not expected to be above normal for any stream in western Colorado. On the Gunnison and San Juan rivers and their tributaries streamflow will most probably be much less than normal. As of February 1, it is almost certain that the summer flow of all streams will be much above that for 1954. Flow of the Colorado River and its tributaries in 1954 was one of the lowest of record. Inflow to Lake Head this water year should be about three-quarters of normal. This is contrasted to about 45 percent of normal in 1954.

Reservoir storage on the Western slope is below average and less than a year ago. An exception is Vallecito Reservoir serving the Pine River Project. This reservoir now contains 56,000 acre-feet as compared to 33,000 on February 1, 1954 and 40,000 acre-feet as average. Taylor Park, Green Lountain and Groundhog reservoirs have less water in storage than a year ago.

Storage in Lake Mead is 12,305,000 acre-feet, down 3.5 million acrefeet, during the past year. This is the lowest point since the storage passed this point on its original filling. The low storage is a result of extremely low inflow last year.

From limited snow surveys, the snow cover and runoff prospects are below normal for the Green River in Wyoming. Rainfall during the fall months was low. Range conditions are described as fair to poor.

COLORADO RIVER TRIBUTARIES IN ARIZONA

Although snow cover in Arizona is generally above average for February 1, spring runoff is expected to be only about one-quarter of the past ten-year average streamflow. Soils in the mountain areas are extremely dry. Rainfall during the last four months of 1954 was extremely deficient. When the snow does melt most of it will be retained by the underlying soil.

The most probable runoff for the period January through May in acrefeet and percent of normal is as follows: Salt River.at Intake 81,000 or 24; Tonto River above Roosevelt Dam 13,000 or 24; Verde River above Horseshoe 80,000 or 36; Gila River at Virden 19,500 or 31; San Francisco River at Clifton 14,000 or 31; and Little Colorado River above Lyman Dam 1,500 or 17. These forecasts assume that precipitation and temperatures during the forecast period will be near average.

Storage on the Salt River project is just above average for the past ten years and about 15 percent less than for February 1, 1954. Total storage is near 35 percent of capacity. San Carlos Reservoir on the Gila River now contains 38,000 acre-feet. Water supply outlook on the Gila continues to be poor.

Unless there is a storm of the size that occurred in late March in 1954, the flow of Arizona streams in the first half of 1955 will be only a small fraction of average,

tion tax

SNOW SURVEYS AND IRRIGATION WATER FORECASTS

COLORADO RIVER BASIN

STATUS OF RESERVOIR STORAGE, FEBRUARY 1, 1955

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY	THOUSA		FEET IN February	
		(THOUS. A.F.t.)	1955	1954	1953	10-yr.Ave.* 1943-1952
COLCRADO DRAINAGE Taylor River Los Pinos River Groundhog Creek Blue River Colorado River Colorado River Colorado River	Taylor Park Vallecito Groundhog Green Mountain Lake Mead Lake Havasu Lake Mohave	106.2 126.3 21.7 146.9 27935.0 688.0	49.0 56.3 4.0 46.6 12305.0 613.0 1653.8	3.5 85.5	11.0	67.8 40.6 8.1 73.0 19147.7 592.2
SALT AND GILA DRAINAC Salt River """ """ """ Verde River Aqua Fria River Gila River	Roosevelt Apache Canyon Saguaro Bartlett Carl Pleasant San Carlos Horseshoe	1420.0 245.0 58.0 70.0 200.0 173.0 1200.0 143.0	528.9 222.3 18.5 53.2 54.4 23.2 0.0	611.3 243.9 54.5 39.9 38.8 32.5 0.0	1026.4 237.6 57.2 39.8 22.6 82.2 5.2 14.1	412.9 195.8 26.1 19.2 36.7 15.8 135.3

^{*}Some for shorter periods

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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for COLORADO RIVER BASIN

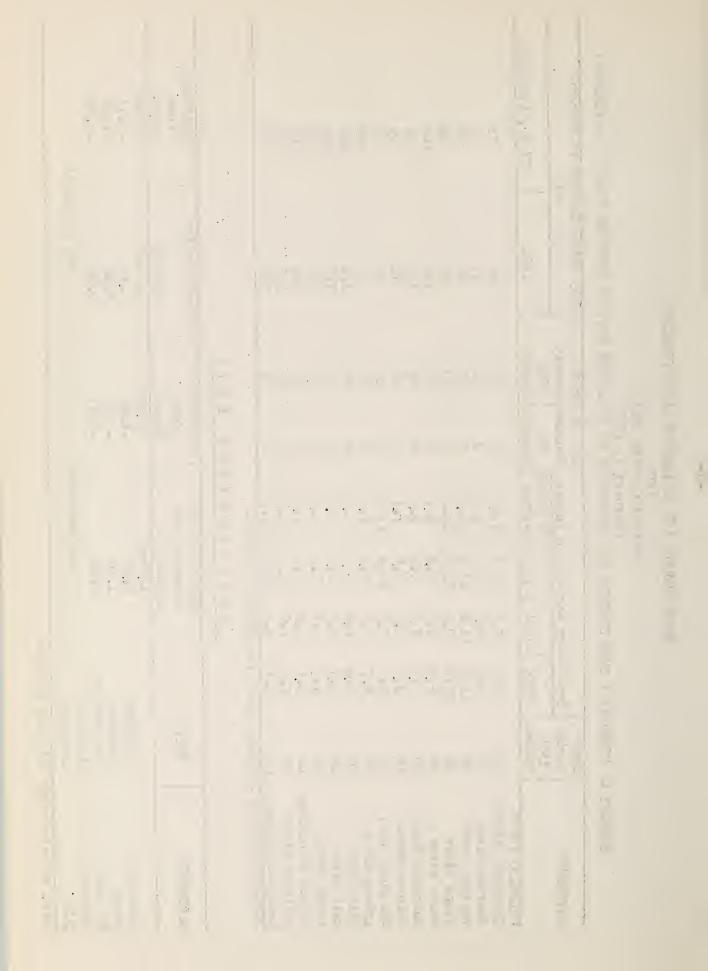
February 1, 1955 SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

Lower Colo,River 16 3.7 2.2 2.9 4.3 4 23 168 86 86 **Above Glenwood Springs *Some for shorter periods.
*Some for sho

DATA PITATION PRECI

		Precipitation*	Departure	Precipitation	Departure
WA TERSHED	STATE	October 1 to	from		from
		January 31	Normal	January	Normal
		Inches	Inches	Lnches	Inches
Colorado	Colorado	4.92	-1.45	1,39	-0-43
Green	Wyoming	1.90	-1.31	45.0	-1.31
San Juan	New Mexico	4.20	-3.03	0.84	-0.0V
Colorado Gila	Arizona Arizona	Not available	ά	Not available	ole

*Ave. sclected high altitude stations



COLORADO RIVER DRAINAGE SNOW SURVEYS

February 1, 1955

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Drainage Basin			195				ast Re		
and	Number	Elev.	Date			Water	Conte	nt (In.)	
Snow Course			of		Content				of
			Survey	(In.)	(In.)	1954	1953	Average	Record
				ORADO :	RI VER				
COLORADO RIVER (a)									
Cameron Pass*(a)		10300		33	9.7	8.9		12.0	16
Park View*	6 J 2		1/31	20	3.3	3.8	5.3	5.7	17
Phantom Valley	5J4	9 30 0	1/28	28	5.2	4.3		6.1	19
Hoosier Pass	6KI	117100		23	4.5	6.6	6.9	6.6	16
Berthoud Pass	5K3		2/1	35	6.6	5.7	8.3	950	19
Tennessee Pass	6K2	10200	1/31	19	3.2	4.0	5.4	5.2	19
M.Fork Camp Gr.	5K4	9000	1/3	23	4.1	3.8	5.6	6.0	18
Fiddler Gulch	6K5	11000	1/29	28	5.7	7.4	9.5	9•3	18
Willow Creek P.	6J5	9500	1/31	27	5.6	5.2		7.4	1.5
N.Inlet Grand L.	5 J9	9000	1/30	24	4.8	4.2	6.2	6.7	16
Lake Irene	5J10	10600		43	8.9		10.5	13.1	16
Arrow	5K6	9900	2/1	21	11.7	3.5	5.1	5.6	16
Fremont Pass #2	6K8	11400	1/28	33	6.5	8.4	9.5	9.2	19
Lynx Pass	6 J 6	9100	1/27	36	7.1	4.9		7.3	18
Shrine Pass	6K9	10500	1/27	36	6.4	7.8		10.3	13
Grizzly Peak	6K9	11250	1/26	30	7.4	7.1		10.8	13
Glen-Mar Ranch	5K10	8850	1/31	21	3.1	4.0		6.3	7
Granby	5J16		1/30	19	4.3	2.5	4.5	5.0	6 6
Grand Lake	5 J 19		1/28	28	4.7	3.5		6.5	6
Berthoud Summit	5K14	11 300		40	9.0	7.1		11.9	կ 3 4
Frazer View	5K15	10600		24	5.4	4.0	_	8.4	Li .
Gore Pass	6J11		1/27	30	6.1	3.3			3
Frisco	6K13		1/28	19	3.3	4.3		6.6	Ĺ
Snake River	5K16		1/27	20	3.2	4.5		7.6	4
Summit Ranch	6K14	10000		31	6.3	2.3		6.0	1
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ROARING FORK	(751	7.07.00	7 /00	20	()	0 1	٠ ٢	707	7.0
Ind.Pass Tunnel	6K4	10700		30	6.4	9.4		10.1	19
N.Lost Creek(a)		9200	1/29		6.2		8.0		13
Ivanhoe	6K10	10400	1/30	34	7.9	9.5	9.1	10.9	9
YAMPA RIVER									
Dry Lake (a)	6 л	8200	1/28	55	13.2	9.5	12.3	11.8	14
Columbine Lodge*	6.73		1/27	61	13.9		15.3		19
Elk River (a)	6J4	8700	1/28	61	14.1		7.2	9.3	15
Lynx Pass	6 J 6	97.00	1/27	36	7.1		6.1	7.3	18
Routt Line	6 J 8	9700	1/27	73	18.2		21.9	24.1	4
Rabbit Ears	6 J 9	9550	1/27	60	14.0		16.3	18.9	4
Yampa View	6J10	8500	1/27	38	8.1		10.0	9.7	14
Old Battle*	6H10		1/26	61	13.5		13.7	18.4	17
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^{*}On Adjacent Drainage
(a) Air Observed

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COLORADO RIVER SNOW SURVEYS February 1, 1955

			Febr	uary 1,							
Drainage Basin											
and	Nos	Ele vo	1 1	Snow	Water	And in contrast of the latest the	Conten	$t(\ln_0)$	Years		
Snow Course			of	Depth					of		
			Survey		(In.	1954	1953	Average	Record		
			COL	ORADO I	E VER						
WHITE RIVER			- /			0 0					
Burro Mountain(a)	7K2		1/29	ที	10.1	8.8	7.9	10.3	19		
Rio Blanco	7J1	8500	2/2	32	8,6	5.6	9.6	9.0	1.5		
DIAMPAII OPPOV											
PLATEAU CREEK	7771.	3,0000	7 /20	24	30.2	30.0	9.8	C: 7	7.8		
Mesa Lakes	7K4	10000		35	10.2	10.0		9.7	18		
Trickle Divide(a)	7K5	10000	1/29	710	12.4	12.2	13.1	14.9	11		
GUNNISON RIVER											
Crested Butte	611	9000	1/30	29	6.1	4.7	7.2	8,2	19		
Park Cone	612		1/30	25	4.3	5.6	6.2	5.8	19		
Alexander Lake (a)	7K3	10000		38	11.0	9.1	10.1	12.9	18		
Ironton Park	7M6		1/31	18	4.1	4.2	7.5	7.1	18		
Trickle Divide(a)	7K\$	10000		40	12.4	12.2	13.1	14.9	11		
Park Reservoir (a)	7K6		1/29	45	14.0	11.5	11.6		11		
Porphyry Creek	6L3	10800		29	6.5	7.6	9.2	9.4	15		
Cochetopa Pass	6 <u>L</u> 6	10000		14	2.8	5.1	2.3		6		
McClure Pass(a)	7K8	9500		37	9.3	. 6.0	9.3(e1	emus	6		
	·										
SAN JUAN RIVER											
Wolf Creek Pass*	6ML	10000		38	10.4	13.3	14.4	14.2	15		
Upper San Juan	6M3	10000		40	11.5	11.9	17.8	19.3	15		
Granite Peaks	7M7		1/31	16	2.7	3.0	3.8	5.7	13		
Wolf Creek Summit	6M17	11000		36	9.0	9.9	13.9	19.1	15 13 4 15		
Chama Divide*	6N2		1/30	7	1.2	401	4.2	4.3	15		
Chamita*	6N3	8500	1/30	14	2.6	4.8	7.4	6.9	13		
ATTICA OF THE TOTAL											
ANIMAS RIVER	m d	01.00	7 /07	3/	0.1	0.0	1 0	2.0	7/		
Silverton Sub.S.	7M4		1/31	16	3-4	0,0	4.7	3.9	16		
Cascade	7M5		1/31	23	5.2	6.6	5.4	7.9	16		
Ironton Park	7M6		1/31	18	4.1	4.2	7.5	7.1	18		
Spud Mt.	7M1	10700		34	9.9	13.8	11.5	17.5	14		
Molas Lake Howardville	7MI.2 7MI.3	10500	1/31	26 25	6.1	5.3	5.7 7.2	11.1 9.6	14 14		
nowar dville	(بللا)	9000	1/)1	47	5.5	7.3	104	9.0	4		
DOLORES RIVER											
Rico	7M1	8700	1/31	16	2.8	2.6	4.3	6.0	15		
Telluride	71/12		1/30	12	1,8	4.3		5.2	16		
Trout Lake	7M9		1/30	27	5.0	5.8	9,6	10.1	6		
	1007		1			,,,,	,,,,		-		

^{*}On adjacent drainage
(a) Air observed

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February 1, 1955 Snow Course Measurements 1955 Drainage Past Record Elev. Number and Date Snow Water Water Content (In.) Years Snow Course of Depth Content of Survey 1954 1953 Average (In.)(In.) Record COLORADO RIVER SALT RIVER Forest Dale 10R6 6000 2/1 7 2.2 1.0 0.0 1.2 15 9R2 7200 2/1 13 2.9 McNary 2.1 2.3 1.3 16 Nutrioso 954 8500 2/2 9 2.1 2.3 17 0.6 0.4 Coronado Trail 987 8000 2/2 12 2.5 0.7 1.1 3.3 17 Milk Ranch 991 7000 2/1 8 2.5 2.2 1.8 0.3 13 5555555 Gentry 10R5 7600 2/3 13 2.5 3.6 1.3 3.0 Heber 10R4 7600 2/2 14 2.5 1.3 3.2 4.0 Canvon Creek 10R3 7500 2/3 16 4.4 2.7 2.4 3.8 Maverick Fork 9S2 9050 2/4 23 5.5 6.6 4.6 4.6 9S1 9000 2/4 5.0 Baldy 20 4.7 4.3 5.7 Fort Apache 9R5 9000 2/4 20 4.3 5.6 5.0 5.9 Pacheta 985 7800 2/1 14 2.9 1.7 0.0 2.6 LITTLE COLORADO RIVER Forest Dale* 10R6 6000 2/1 7 2.2 0.0 15 1.0 1.2 McNary 9R2 7200 2/1 13 1.0 16 3.1 2.3 2.9 Nutrioso* 9SL 8500 2/2 9 2,1 0.6 0.4 2.3 17 Mormon Lake 11R4 7350 2/1 19 5.4 3.5 1.8 5.6 8 Fort Valley 10P2 7350 1/31 11 8 3.0 1.2 1.4 3.1 10R5 7600 2/3 5555 Gentry 13 3.6 2.5 1.3 3,0 10RL Heber 7600 2/3 14 4.0 2.5 1.3 3.2 10R3 7500 2/3 Canyon Creek 16 4.4 2.7 2.4 3.8 Mormon Mt. 11R3 7500 2/2 20 5.4 34 3.9 5.0 GILA RIVER Frisco Divide 7S1 8000 2/2 2.8 11 0.7 1.1 2,0 17 State Line 732 8000 2/2 14 1.2 3.7 0.8 2.6 17 Nutrioso 954 8500 2/2 9 2.1 0.5 0.4 2.3 17 Taylor Creek 851 7850 2/2 0 0.0 0.0 0.0 0.6 11 Coronado Trail **9**S7 8000 2/2 12 2.5 0.7 1.1 3.3 17 Inman 852 7800 2/2 0 0.0 0.0 0.6 ---9 Beaver Head 956 8000 2/3 14 1.8 2.6 2.4 3.0 17 Rose Canyon 10T2 7300 1/31 12 3.2 2:9 0.0 1.0 7 Bear Wallow loTl 8100 1/31 19 4.6 3.3 2.3 2.5 7

^{*}On adjacent drainage

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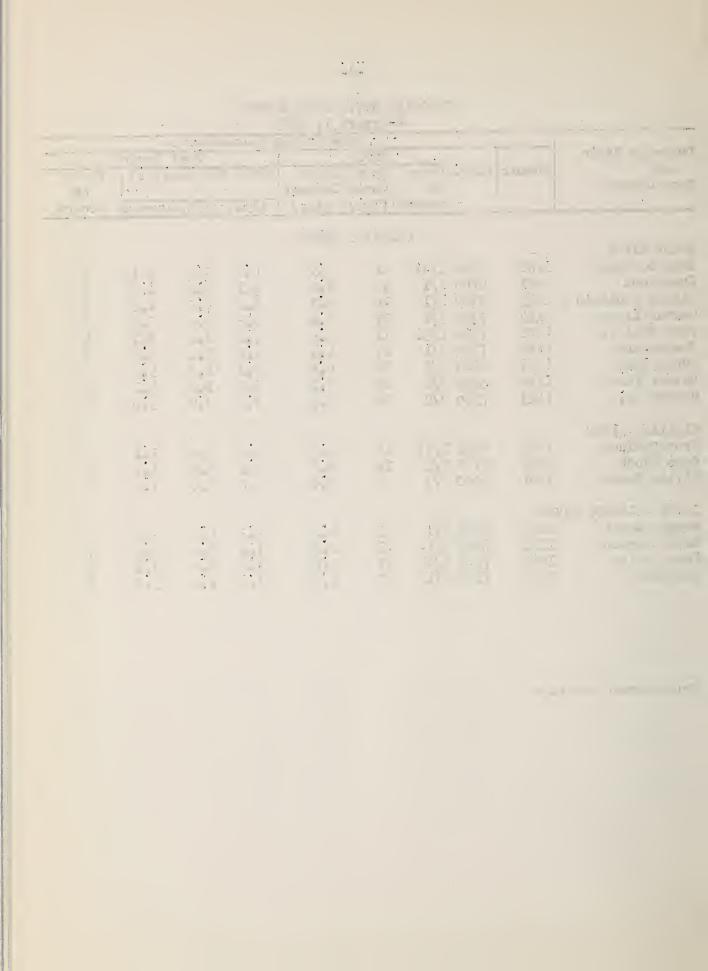
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COLORADO RIVER SNOW SURVEYS February 1, 1955

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Drainage Basin	,			1955				Record	
and	Number	Elev.	Date		Water	Water (Content	In.)	Years
Snow Course			of		Content				of
			Survey	(In.)	(In.)	1954	1953 A	rerage	Record
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HEADE DIHES			UO.	LORADO	RIVER				
VERDE RIVER	7.000	(000	- /	7.0	١	0.0			
Iron Springs*	12R2		1/31	12	4.5	8.0	0.0	1.1	9
Camp Wood	12R1	5700		12	2.8	2.1	0.0	1.3	9
Mingus Mountain	12R3		2/1	10	2.7	1.2	0.0	1.6	8 8
Morman Lake*	11R4		2/1	19	5.4	3.5	1.8	5.6	8
Fort Valley*	10P2		1/31	11	3.0	1.2	1.4	3.1	8
Chalendar*	12P1	7100		17	4.4	1.8	2.4	3.6	8
Munds Park	11R1	6500	2/2	20	4.8	2.3	1.7	5.4	5
Casner Park	11R2	6930	2/2	20	5.7	3.2	2.6	4.1	5
Mormon Mt.	11R3	7500	2/2	20	5.4	3.4	3.9	5.0	8 8 5 5 5
WILLIAMS RIVER									
Iron Springs	12R2		1/31	12	4.5	0.8	0,0	1.1	9
Camp Wood*	12R1		2/1	12	2.8	2.1	0.0	1.3	9
Willow Ranch	13P1	5000	2/3	0	0.0	0.0	0.0	1.0	9

LOWER COLORADO RIV		01	- /-			١			
Bright Angel	12NJ	8400		23	4.7	4.3	4.6	7.8	7
									8
Chalender	12P1	7100	2/1	17	4.4	1.8	2.4	3.6	8
Grand Canyon Fort Valley Chalender	11P1 10P2 12P1	7500	2/1 1/31	13 11 17	2.5 3.0 4.4	1.4 1.2	0.6	2.6 3.1	7 8 8

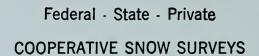
^{*}On adjacent drainage



0	State	Name Cheyenne	Sec.	Twp.	Rge.	Elev.	No.	State	Name Upper Colorado	Seo.	Twp.	Rge.	Elev.
1	SD	Upper Spearfish	21	3 N	1E	6500	5J 4	C	Phantom Valley	7	5N	7 5W	9300
							5K3	C	Berthoud Pass	35	2S	7.5W	9700
		North Platte					5K4	C	M.F. Camp Ground	16	38	77W	9000
2	С	Park View	24	5N	78W	9200	6 K5	C	Fiddler Gulch	1	88	80W	11000
ζ	C	Columbine	21	5N	82W	9300	5J 7	C	Lulu	25	6N	76W	10200
7	C	Northgate	7	11N	79₩	8500	6J 5	C	Willow Creek Pass	1	4N	78W	9500
	W	No. French Creek	27	16N	WO.8	10200	5J 9	C	N. Inlet Grand Lake	26	4 N	75W	9000
5	W	No. Barrett Creek	30	16N	BOW	9400	5J10	C	Lake Irene	8	5N	7 5W	10600
5	W	Ryan Park	34	16N	81W	8400	5K6	C	Arrow	34	18	7 5W	9900
7	W	Spring Creek	32	15N	8.5W	9000	5K7	C	Lapland	16	2S	76W	9500
R	W	Bottle Creek	24	14N	8.5W	8200	6X8	C	Fremont Pass	2	88	76W	11400
9	W	Webber Springs	27	14N	8.5W	9000	6J 6	C	Lynx Pass	27	2N	88W	9100
lo	₩	Old Battle	29	14N	8.5W	9800	6K9	C	Shrine Pass	15	6S	79W	10500
11	W	Albany	18	14N	78W	9400	5K9	C	Grizzly Peak	2	5S	76W	11250
13	W	Pearl	18	12N	82W	8900	5K10	C	Glen-Mar Ranch	31	2S	77W	8850
LU	**	10011	10	2 621	0211	0000	5314	C	Monaroh Lake	30	2N	74W	8500
		Laramie					5J 16	C	Granby	11	2N	77W	8700
10	С	Roach	5	10N	77W	9800	5J19	C	Grand Lake	36	4N	788	8600
12			35		76W		5K14	C	Berthoud Summit	10	25	754	11300
15	C	McIntyre	35	10N 16N	7 3 N	9100 10200	5K15	С	Frazer View	34	28	75W	10600
L	W.	Brooklyn Lake	24	16N	7 9W	9500	6J11	C	Gore Pass	2	1N	82W	3900
7	W	Hairpin Turn					6K13	Ċ	Frisco	18	6S	78W	9300
)	W	Libby Lodge	29	16N	78W	8900	5K16	C	Snake River	9	5S	76W	9700
12	W	Fox Park	21	13N	78W	9200	6K14	C	Summit Rench	8	48	78W	10000
		0					5J 24	C	Milner Pass	7	5N	7 5W	10100
7	350	Sweetwater	7.00	7.027	3.0.33	0000	6K15	C	Vail Pass	28	5S	79W	10000
5	W	South Pass	13	30N	101W	9000	6K18	C	Kokono	23	7 S	79W	10600
1	W	Grannier Meadows	19	30N	IOOW	9000	6K19	C	Pando	10	7S	80W	9500
5	W	Larsen Creek	12	30N	103W	9000	ONID	Ü		10	,,,	0011	3000
		Laramie Peaks Dista	- CONTRACTOR				6K4	С	Roaring Fork Ind. Pass Tunnel	37	118	8 2W	10700
l	W	Boxelder	11	27N	74W	8450		C				87W	
5	W	LaBonte	37.	30N	75W	9000	7K1		North Lost Trail	20.	118		9200
							6%6	C	Nast	1	9 S	83W	8700
		South Platte					6K10	C	Ivanhoe	12	98	82W	10400
1	C	Cameron Pass	2	6N	7 6W	10300	6K12	С	Ruby	1	128	83W	11500
2	C	Chambers Lake	6	7N	75W	9000							
150	С	Big South	33	8N	7 5W	8600			Yampa				
1	C	East Portal	2	2S	7 4W	9400	6J1	C	Dry Lake	26	7N	84W	8300
1	C	Hoosier Fass	13	85	78W	11400	6J4	C	Elk River	21	5N	8 2W	9300
2	С	Fairpley	33	9S	77W	10000	6J 8	C	Routt Line	13	5N	83W	9700
5	С	Wild Basin	24	3N	74W	10000	6119	C	Rabbit Ears	30	5N	83W	9550
20	C	Deedman Hill	26	101	7 5W	10200	6J10	С	Yampa View	21	5N	84W	8500
3	C	University Camp	26	IN	73₩	10300							
5	C	Loveland Pass	27	4S	76W	10600			White				
11	С	Hour Glass Lake	18	7N	73W	9500	7 K2	C	Burro Mountain	15	28	91W	9000
8	C	Jefferson Creek	14	7S	76W	10100	7J1	C	Rio Blanco	28	111	88W	8500
L3	C	Midden Valley	23	5N	7 5W	9550							
17	C	Deer Ridge	19	5N	73W	9050			Plateau Creek				
18	C	Copeland Lake	21	3N	73W	8600	7K4	C	Mosa Lakes	35	113	96W	10000
10	C	Empire	21	3S	75W	9650	7K5	C	Trickle Divide	23	118	94W	10000
11	C	Geneva Fark	18	6S	74%	9750							
1	C	Antero	10	138	77W	9200			Gunnison				
5C	C	Red Feather		10N	74W		6L1	C	Crested Butte	22	138	86W	9000
18	C		26			9000	6TS	C	Park Cono	19	148	82W	9700
21	C	Moffett	2	2S	74W	9400	7K3	C	Alexander Lake	2	128	25W	10000
	C	Ward	1	1N	73W	9500	7L1	C	Snowshoe Wesa	14	138	89W	7500
17		Borthoud Falls	16	3S	75W	10800	7M6	c	Ironton Park	29	43N	7W	9800
25	C	Lorgs Feek	32	4N	73W	10500	7K6	C	Park Reservoir	34	11S	94W	9500
23	^	List Lake	32	8N	7 5W	9300							
17	1	Clear Creek	27	48	76W	11200	6L3	C	Porphyry Creek	19	49N	6E	10800
25	C	Boulder Falls	26	1N	734	10000	7K7	C	Kannah Creek	5	128	9.5W	10700
5.6		Two Male	SS	5N	74W	10500	7M8	C	Lake City	13	43N	4W	10300
1	4.6	Pole Mountain	35	15N	7 2W	8700	7K8 7M15	C	McClure Pass Red Mountain	13	11S 42N	8.5W	9500 11000
		Arkansas										5	
2	С	Tennessee Pass	21	88	D.CW	10200			San Juan				
3	C	Twin Lakes Tunnel	22	115	80W	10200	6M3	C	Upper San Juan	10	37N	1.E	10000
1	C	LaVeta Pass			82W	10500	7 ⊻4	C	Silverton	10	41N	7W	9400
7	C	Four Mile Park	22	288	70W	9300	7M5	C	Cusoade	12	39N	9W	8850
2	C	Blue Lakes	23	118	81W	9700	7M7	C	Granite Peaks	23	37N	6W	7950
Ä	C	Monarch Pass	30	31S	69W	10000	7M10	C	La Plata	4	36N	11W	9700
.6	C	Saint Elmo	16	49N	6E	10500	7M11	C	Spud Mountain	32	40N	8W	10700
11	C		3.7	155	80%	10600	7M12		Molas Lake	7	40N	771	10500
16	C	Timberline Cooper Hill	8	95	81%	11100	71/13	C	Howardville	15	41N	7W	9800
(17	C	Hest Fork	2	88	80W	10600	7M14	C	Mineral Creek	35	42N	8W	10300
-2	G	Heatoliffe	9 19	88	79W	10700	7 142 7			0.0	163	OIT	10000
			1.9	223	73W	9000							

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llk8		T- /e_1==		1a-	100	7800		C	Santa wari	- 20		
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11314	0.	place for	51	208	43	9200	6ML2	O.	Pyramic			
11815	1	Lill From	17	205	4E	9200	6H13	C	Spring Cra.	- 4	1_4	31
							5M14	C	P.ol Tab			
		North Contract					6271.5	C	wake we .			00
1113	-0.	file (plus			1E	8700	6L8	0	Cochabona	14		
LLLA		2:00 1 - 1/4 LF	20	48	3E	9250	3M16	C	Porouvins			
1115		CONTRACT COLLEGES IN		105	4E	9800	W17	C	Wolf Crec. w			
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							5N1	NM	Red Rive			2 100
limi		STORTER TO THE REAL	- 13	7.4	119	9500	57 2	131	Taos Calif			
111		TO SCHOOL OUR ST	23	دوليد	15	9500	E) 1	NW	Aspen Gr			
							5N3	NH	Hematite (1.4	
		721					574	WM	Tras With	0.81		
12M6	ŋ	O T 123 J.	0.0	-388-	6W	7360	6N1	NM	Payrol	10		
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12M1	T	Cedar Break	2	378	SW	10790	5P2	VM	Famor a- 15.			
12M3	U	Webster Flat	1:0	37S	9W	9200	5F 3	MM	Big fe to			
13M1	Ū	Pine Valley		408	15W	9150	5P4	阿川	Elk obt			
22 07 100		Lower Colorado F				rn Utah)	5P5	9	120 10 1			
9L1	U	LaSal Mountain	5	278	24E	8800	6P1	1 11	Quemason			
9M 1	U	Buckboard Flat	36	33S	SSE	9000	6N4	NM	1 1 8 11	-		
w		Gila (Ariz wa)	0.0	0.00	17 t / L-1	000	6P2	NM	Funta:			
7S1	NM	Frido Divide	21	68	SOM	8000						
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8S1	N.	And Cree	20	108	10%	a En						
00 %	14.1	. 11 0198	40	100	LUTI,	-300						





Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"